Location Date/Time Deaths & Property & Event Type and Details
Injuries Crop Dmg

NORTH DAKOTA, Central and West

(ND-Z003) RENVILLE, (ND-Z004) BOTTINEAU, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z019) MERCER, (ND-Z021) MCLEAN

05/01/11 00:00 CST 0 Blizzard

05/01/11 05:00 CST 0

A powerful late spring storm system swept across the Northern Plains region April 29th through May 1st. Impacts were most significant over west central and northwest North Dakota. See April Storm Data for additional details.

BOTTINEAU COUNTY --- 44.5 W ANTLER [48.98, -102.25], 36.1 SSW LANSFORD [48.18, -101.77], 29.1 S WILLOW CITY [48.18, -100.34], 3.5 WSW

WILLOW CITY [48.58, -100.35], 4.9 N LANDA [48.97, -100.90]

05/31/11 23:59 CST 0 Source: Other Federal Agency

See the event episode narrative for details.

MCHENRY COUNTY --- 67.8 NW DEERING [48.98, -102.25], 36.4 WSW DEERING [48.18, -101.77], 12.1 SSE TOWNER [48.18, -100.34], 12.7 ENE BANTRY

[48.58, -100.35], 28.2 NNW UPHAM [48.97, -100.90]

05/01/11 00:00 CST 5M Flood (due to Heavy Rain / Snow Melt)

05/31/11 23:59 CST 0 Source: Other Federal Agency

See the event episode narrative for details.

RENVILLE COUNTY --- 26.0 NW TOLLEY [48.98, -102.25], 31.6 SSW GRANO [48.18, -101.77], 46.6 ESE GLENBURN [48.18, -100.34], 40.1 E GLENBURN

[48.58, -100.35], 30.1 ENE LORAINE [48.97, -100.90]

05/01/11 00:00 CST 5M Flood (due to Heavy Rain / Snow Melt)

05/31/11 23:59 CST 0 Source: Other Federal Agency

See the event episode narrative for details.

WARD COUNTY --- 20.8 N NIOBE [48.98, -102.25], 9.8 S BERTHOLD [48.18, -101.77], 33.5 ENE SAWYER [48.18, -100.34], 36.4 ENE WOLSETH [48.58,

-100.35], 37.3 NNE WOLSETH [48.97, -100.90]

05/31/11 23:59 CST 0 Source: Other Federal Agency

See the event episode narrative for details.

This was part of historic flooding in North Dakota with statewide costs estimated around 1.5 billion dollars. Flooding was the result of significant winter snows and significant spring rains, not only in North Dakota but in Saskatchewan, Canada, as well. Flooding was along the Souris (Mouse) River from where it enters the United States from Saskatchewan, Canada, to where it crosses into Manitoba, Canada. Dams were overwhelmed by the amount of water. Flooding included river, ground, and overland types. Estimated damages were many hundreds of millions of dollars, and that is not all inclusive. There was a significant loss to agriculture by not being able to plant. A tremendous flood fight was waged against the river, and that cost is not included here. Storm Data cannot reflect the scope of this event. Information is what was available at the time of this writing. Refer to newspaper articles and other federal, state, and local sources for detailed information.

Here are some facts about the flooding in North Dakota provided by North Dakota Emergency Management. The total estimated flood cost was around \$1.5 billion. Individual and housing assistance was \$323 million; small business \$248 million; home and business reconstruction \$452 million; public response, recovery, and mitigation \$480 million; disaster unemployment for 866 claims was \$2.3 million; and the public finance authority disaster loan program approved \$56.6 million. Public infrastructure costs were \$320 million. Of the state's 53 counties, 48 were impacted, along with three tribal nations.

BURLEIGH COUNTY --- 11.0 NNE WILTON [47.31, -100.69]

05/09/11 11:50 CST 0 Hail (0.75 in) 05/09/11 11:52 CST 0 Source: Mesonet

Early afternoon thunderstorms developed across portions of south central North Dakota on May 9th. One report of large hail was received in northern Burleigh County.

WARD COUNTY --- 3.5 S DES LACS [48.20, -101.56]

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ocation	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/10/11 11:58 CST		0	Hail (0.88 in)
	05/10/11 12:00 CST		0	Source: Public
VARD COUNTY 5.0 NNW FOXHOLM [	48.44, -101.60]			
	05/10/11 12:17 CST		0	Hail (0.88 in)
	05/10/11 12:20 CST		0	Source: Public
Early afternoon thunderstorms develope received in Ward County.	ed across portions of north central	North Dakota on I	May 10th. Two rep	orts of large hail were
DUNN COUNTY 62.6 WNW KILLDEER -104.00]	[47.75, -103.99], 23.2 N WERNER [4	47.70, -102.38], 58	8 N WERNER [48.	21, -102.27], 79.5 NW KILLDEER [48.17,
-104.00]	05/11/11 00:00 MST		50K	Flood (due to Heavy Rain / Snow Melt)
	05/31/11 23:59 MST		0	Source: Other Federal Agency
See the event episode narrative for details	S.			
MCKENZIE COUNTY 7.2 SSE FAIRVIE	W [47.75, -103.99], 14.0 E MANDAR	REE [47.70, -102.38	], 29.3 ENE CHAR	LSON [48.21, -102.27], 22.1 N
FAIRVIEW [48.17, -104.00]	05/11/11 00:00 MST		50K	Flood (due to Heavy Rain / Snow Melt)
	05/31/11 23:59 MST		0	Source: Other Federal Agency
See the event episode narrative for details			v	course. Suite i sacrai rigorio,
		NIALL ADDT 147.7	0 400 001 0 0 NE	DEL DEN ADDT (40.04, 400.07), 50.4
MOUNTRAIL COUNTY 67.7 WSW SAN WSW WHITE EARTH [48.17, -104.00]		ORALL ARPT [47.7	_	
	05/11/11 00:00 CST		50K	Flood (due to Heavy Rain / Snow Melt)
	05/31/11 23:59 CST		0	Source: Other Federal Agency
See the event episode narrative for details	S.			
WILLIAMS COUNTY 17.3 S BUFORD [	47.75, -103.99], 54.6 SSE TIOGA [47	7.70, -102.38], 33.0	ESE TIOGA [48.2	1, -102.27], 9.8 NW TRENTON [48.17,
-104.00]	05/11/11 00:00 CST		0.25M	Flood (due to Heavy Rain / Snow Melt)
	05/31/11 23:59 CST		0	Source: Other Federal Agency
See the event episode narrative for details	S.			
This was part of historic flooding in Norsignificant winter snows and significant four to six times normal. Flooding was a the amount of water. Flooding included \$400,000 and that is not all inclusive. The waged against the river, and that cost is available at the time of this writing. Refewhere are some facts about the flooding it cost was around \$1.5 billion. Individual areconstruction \$452 million; public resp	spring rains, not only in North Dak long the Missouri River from the M river, ground, and overland types. Gere was a significant loss to agricu not included here. Storm Data can r to newspaper articles and other for North Dakota provided by North land housing assistance was \$323 n	ota but in Montan ontana border to Oil wells were shu liture by not being not reflect the sco ederal, state, and Dakota Emergenc nillion; small busi	a as well. Rocky M Garrison Dam. Dan Ittered. Estimated able to plant. A trope of this event. In local sources for of y Management. Thess \$248 million;	Mountain snowpack was ms were overwhelmed by damages were around remendous flood fight was information is what was detailed information.  The total estimated flood is home and business
million; and the public finance authority the state's 53 counties, 48 were impacted	disaster loan program approved \$			
The Missouri River was in flood in every	state in the United States of Ameri	ica that it runs thr	ough. This was a r	multi-state disaster.

A rapidly strengthening surface trough over eastern Montana created a strong pressure gradient over southwest North Dakota on May 16th. This resulted in high sustained winds and a few gusts over 60 mph during the daytime hours.

05/16/11 09:00 CST

05/16/11 17:00 CST

**ADAMS** 

BOWMAN COUNTY --- 7.6 S RHAME [46.12, -103.65]

(ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z043) BOWMAN, (ND-Z044)

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0

0

High Wind (MAX 54 kt)

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/20/11 10:00 MST		0	Heavy Rain
	05/20/11 10:00 MST		0	Source: Public
A storm total rainfall of 2.01 inches was reported	ed.			
GRANT COUNTY 12.0 NNW ELGIN [46.56,	=			
	05/20/11 15:30 MST 05/20/11 15:30 MST		0	Heavy Rain Source: Public
A storm total rainfall of 1.50 inches was reporte			Ü	Source. Fublic
Coom total familian of 1.00 mones was reported				
GOLDEN VALLEY COUNTY 0.5 W GOLVA	[46.73, -103.99] 05/20/11 15:57 MST		0	Heavy Rain
	05/20/11 15:57 MST		0	Source: Broadcast Media
A storm total rainfall of 1.50 inches was reported	ed.			
DUNN COUNTY 6.4 NE NEW HRADEC [47.	07, -102.79]			
	05/20/11 16:27 MST		0	Heavy Rain
	05/20/11 16:27 MST		0	Source: Broadcast Media
A storm total rainfall of 2.50 inches was reported	ed.			
BOWMAN COUNTY 22.8 SW RHAME [46.0			^	Funnal Claud
	05/20/11 17:25 MST 05/20/11 17:30 MST		0	Funnel Cloud Source: Emergency Manager
A brief funnel cloud was observed by a trained	weather spotter. This report wa	s relayed through	the Bowman Coun	ty Emergency Manager.
·				
SLOPE COUNTY 1.2 SW MARMARTH [46.2	<b>.9, -103.92]</b> 05/20/11 20:42 MST		0	Heavy Rain
	05/20/11 20:42 MST		0	Source: Broadcast Media
A storm total rainfall of 3.00 inches was reporte	ed.			
A slow moving upper level low pressure syst received heavy amounts of precipitation, whi cloud developed over far southwest North Da	ch contributed to increased ri			-
LA MOURE COUNTY 1.2 SW EDGELEY [46	5.36, -98.72] 05/21/11 19:18 CST		0	Hail (0.75 in)
	05/21/11 19:16 CST 05/21/11 19:21 CST		0	Hail (0.75 in) Source: Emergency Manager
Early evening thunderstorms developed acro arge hail was received in LaMoure County.		nd southeastern N	North Dakota on M	
BILLINGS COUNTY 3.0 NNW MEDORA [46	.96, -103.56], 2.7 NNE MEDORA	A [46.96, -103.51],	3.2 S MEDORA [46	6.87, -103.52], 3.4 SSW MEDORA
[46.87, -103.55]	05/22/11 00:00 MST		50K	Flood (due to Heavy Rain / Snow Melt)
	05/29/11 23:59 MST		0	Source: Other Federal Agency
See the event episode narrative for details.				
This was part of historic flooding in North Dasignificant winter snows and significant sprinumber of homes and the buildings of the BaA tremendous flood fight was waged against event. Information is what was available at the sources for detailed information.	ng rains. Flooding was along t adlands Ministries Bible Camp the river, and that cost is not	he Little Missouri . Estimated damaç included here. Sto	River through Me ges were \$50,000 a orm Data cannot re	dora. Flooded were a and that is not all inclusive. eflect the scope of this

DICKEY COUNTY --- 4.0 NW MONANGO [46.21, -98.64]

05/22/11 16:48 CST

05/22/11 16:51 CST

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Funnel Cloud

Source: Public

0

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DUNN COUNTY 2.0 S MANNING	G [47.20, -102.77]			
	05/22/11 17:00 MST		0	Funnel Cloud
	05/22/11 17:00 MST		0	Source: Public
RENVILLE COUNTY 5.0 E TOLI		3, -101.71]		
	05/22/11 19:41 CST		0	Tornado (EF0, L: 0.14 mi , W: 25 yd)
	05/22/11 19:42 CST		0	Source: Law Enforcement
The combination of low level insta	o witnessed by a deputy sheriff. ability and large scale ascent associated with chdown over north central North Dakota. T	•		
	ability and large scale ascent associated who have north central North Dakota. T	•	eports were also r	received.
The combination of low level insta one confirmed weak tornado touc	ability and large scale ascent associated v	•		
The combination of low level insta one confirmed weak tornado touc WARD COUNTY MINOT [48.23,	ability and large scale ascent associated withdown over north central North Dakota. T  -101.28]  05/30/11 00:00 CST	wo funnel cloud r	eports were also r	received.  Heavy Rain
The combination of low level insta one confirmed weak tornado touc WARD COUNTY MINOT [48.23, Over two inches of rain fell over an	-101.28]  05/30/11 18:00 CST	the afternoon.	o 0 0	Heavy Rain Source: ASOS
The combination of low level instance confirmed weak tornado touch VARD COUNTY MINOT [48.23, Over two inches of rain fell over an VARD COUNTY 4.2 NNW SURF	-101.28]  05/30/11 00:00 CST 05/30/11 18:00 CST	the afternoon.	o 0 0	Heavy Rain Source: ASOS
The combination of low level instance confirmed weak tornado touch ward country MINOT [48.23, Over two inches of rain fell over an ward country 4.2 NNW SURF	-101.28]  05/30/11 00:00 CST 05/30/11 18:00 CST 18 hour period. Much of this rain fell during	the afternoon.	0 0 0	Heavy Rain Source: ASOS -101.37], 1.8 NE BURLINGTON [48.30,
The combination of low level instance confirmed weak tornado touch ward COUNTY MINOT [48.23, Over two inches of rain fell over an WARD COUNTY 4.2 NNW SURF 101.39]	-101.28]  05/30/11 00:00 CST 05/30/11 18:00 CST 18 hour period. Much of this rain fell during REY [48.28, -101.17], 5.4 SSW SURREY [48	the afternoon.	0 0 0 SW MINOT [48.18,	Heavy Rain Source: ASOS  -101.37], 1.8 NE BURLINGTON [48.30, Flash Flood (due to Heavy Rain)

(ND-Z001) DIVIDE, (ND-Z002) BURKE, (ND-Z003) RENVILLE, (ND-Z004) BOTTINEAU, (ND-Z005) ROLETTE, (ND-Z009) WILLIAMS, (ND-Z010) MOUNTRAIL, (ND-Z011) WARD, (ND-Z012) MCHENRY, (ND-Z013) PIERCE, (ND-Z017) MCKENZIE, (ND-Z018) DUNN, (ND-Z019) MERCER, (ND-Z020) OLIVER, (ND-Z021) MCLEAN, (ND-Z022) SHERIDAN, (ND-Z023) WELLS, (ND-Z025) FOSTER, (ND-Z031) GOLDEN VALLEY, (ND-Z032) BILLINGS, (ND-Z033) STARK, (ND-Z034) MORTON, (ND-Z035) BURLEIGH, (ND-Z036) KIDDER, (ND-Z037) STUTSMAN, (ND-Z040) SLOPE, (ND-Z041) HETTINGER, (ND-Z042) GRANT, (ND-Z043) BOWMAN, (ND-Z044) ADAMS, (ND-Z045) SIOUX, (ND-Z046) EMMONS, (ND-Z047) LOGAN, (ND-Z048) LA MOURE, (ND-Z050) MCINTOSH, (ND-Z051) DICKEY

Deep low pressure lifting north into southern Canada resulted in strong winds across all of west and central North Dakota May 31st. Sustained winds of 40 mph and peak gusts up to 60 mph were reported during the morning and afternoon.

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